

*Use, delayed in 1962*

FILE NOTATIONS

Entered in NID File ✓

Entered On S R Sheet ✓

Location Map Pinned ✓

Card Indexed ✓

I W R for State or Fee Land         

Checked by Chief *[Signature]*

Copy NID to Field Office         

Approval Letter ✓

Disapproval Letter         

COMPLETION DATA:

Date Well Completed 5-24-60

Location Inspected ✓

OW          WW          TA ✓

Bond released         

GW          OS         

PA X 8-18-62 State of Fee Land         

LOGS FILED

Driller's Log 6-14-60

- 7-7-62

Electric Logs (No. ) 3

E         

I         

E-I ✓

GR         

GR-N         

Micro         

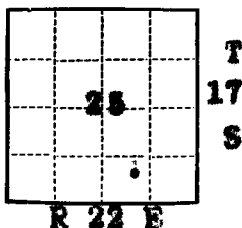
Lat.         

Mi-L         

Sonic ✓

Others Radioactivity Log

*Subsequent Report of Abandonment of*



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **Salt Lake City**  
Lease No. **Utah 05674**  
Unit **Diamond Ridge**

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

**February 19**, 19**60**

Well No. **8** is located <sup>1544</sup>~~700~~ ft. from **S** line and <sup>1889</sup>~~1400~~ ft. from **E** line of sec. **25**  
**SE/4 Section 25** **17S** **22E** **-**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Grand County** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~water~~ **ground** floor above sea level is **6417** ft.

**DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to immediately drill this well with rotary tools to 7500' for a Dakota-Morrison-Entrada test. We propose to set 20" conductor casing 8' below surface and set 18-3/8" surface casing through surface gravels at approximately 150' and cement to surface of ground. Drill 12-1/4" hole to Castlegate at approximately 3000' with gel mud and run Induction-Electrical log. Set 9-5/8" OD casing to bottom with 200 sx common cement with 4% gel and 2% Ca. Cl. Connect up and drill with air through Dakota and Morrison sands and set 7" OD casing on bottom and cement with sufficient Latex cement to reach 500' above uppermost productive zone. Drill plugs and continue drilling to Entrada.

This well location is off pattern because of terrain.  
A plat is attached.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Sunray Mid-Continent Oil Company**

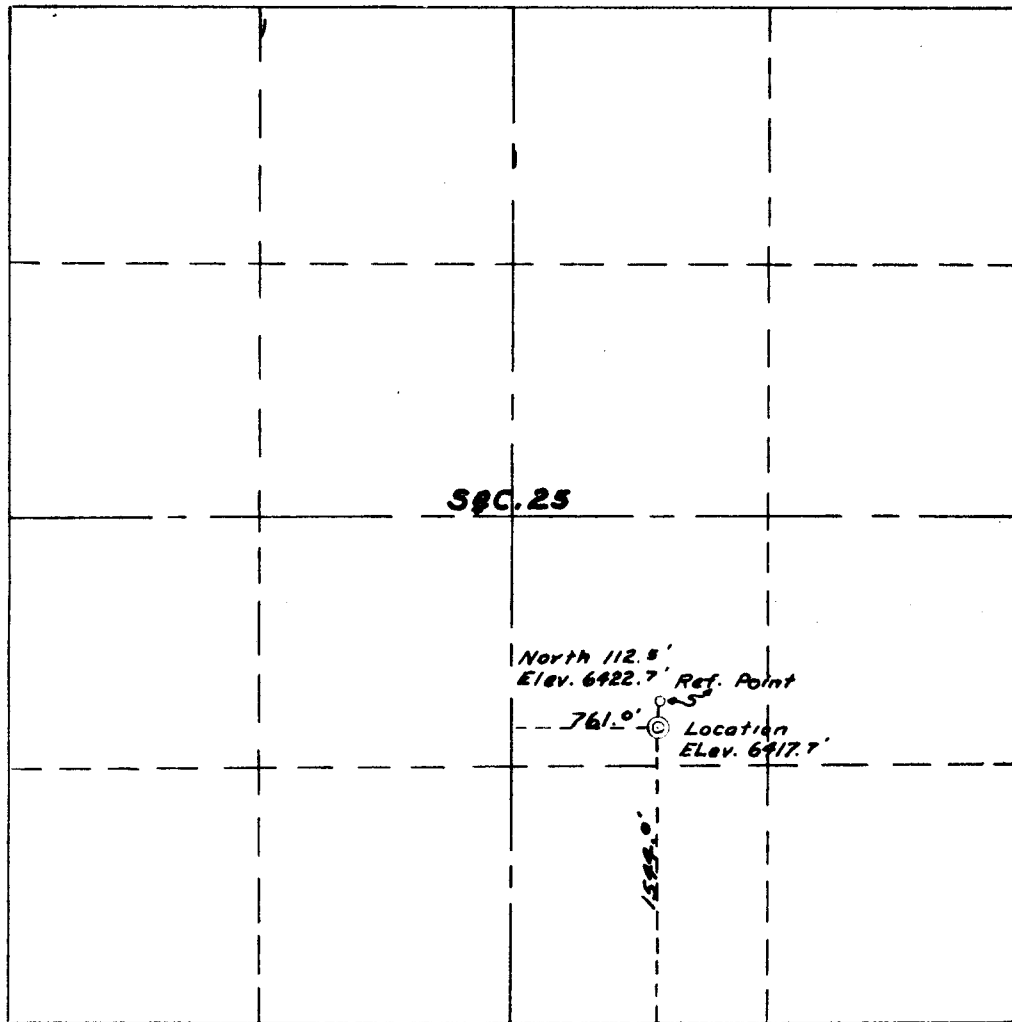
Address **P. O. Box 2692**

**Denver, Colorado**

By 

**F. S. Goddard**

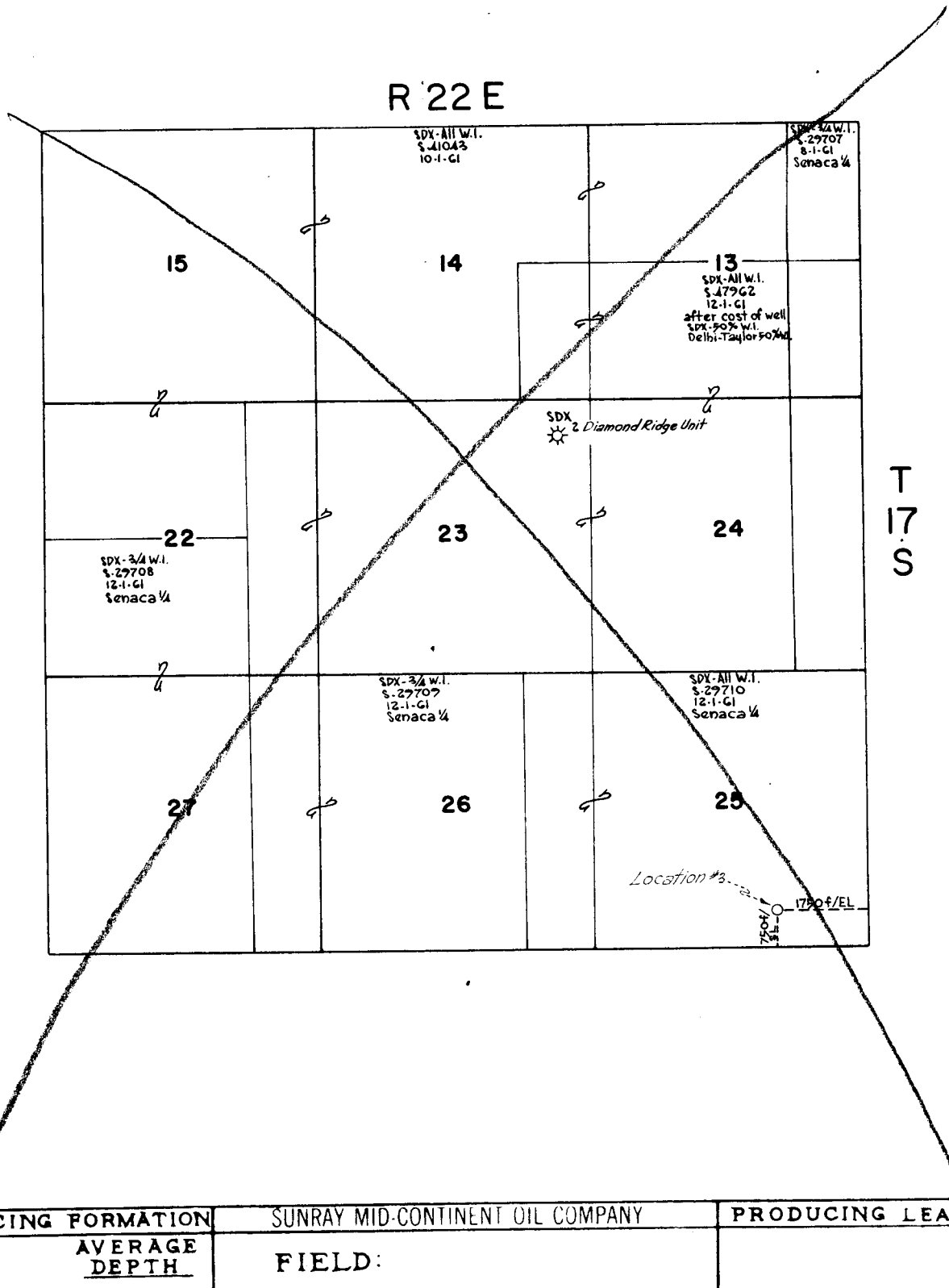
Title **Production Coordinator**



WELL LOCATION  
**DIAMOND RIDGE NO. 3**  
**SUNRAY MID-CONTINENT OIL CO.**  
**DENVER COLORADO**  
 SITUATED IN NW¼ SE¼ OF SECTION 25  
 T. 17S, R. 22 E. S. L. B. M.  
 SCALE 1 INCH = 1000 FEET

THIS IS TO CERTIFY THAT THE WELL  
 LOCATION SHOWN ON THIS PLAT  
 WAS PLOTTED FROM FIELD NOTES  
 OF ACTUAL SURVEYS MADE BY  
 ME OR UNDER MY SUPERVISION  
 AND THAT SAME ARE TRUE AND  
 CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND BELIEF.  
 DATE OF SURVEY FEBRUARY 11, 1960.

Tom Walker  
 TOM WALKER  
 Registered Land Surveyor  
 Glenwood Springs, Colorado  
 Certificate No. 597



PRODUCING FORMATION		SUNRAY MID-CONTINENT OIL COMPANY		PRODUCING LEASES	
NAME	AVERAGE DEPTH	FIELD:			
		DISTRICT: SALT LAKE GROUP:			
		COUNTY: GRAND STATE: UTAH			
		SCALE			
		3000 1500 0 1500 3000 6000			
		FEET			

February 25, 1960

Sunray Mid-Continent Oil Company  
P. O. Box 2692  
Denver, Colorado

Attention: F. S. Goddard,  
Production Coordinator

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill well No. Diamond Ridge Unit 3, which is to be located 750 feet from the south line and 1750 feet from the east line of Section 25, Township 17 South, Range 22 East, SLBM, Grand County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Under Rule A-3, the approval of this Commission is not necessary when an unexecuted copy of the unit agreement is on file with this office. In such a case, it is only necessary to file copies of all notices of intention and subsequent reports that are filed with the United States Geological Survey.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE SECRETARY

CBF:op

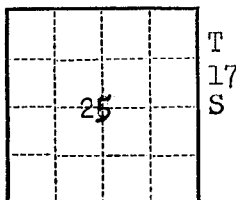
cc: D. F. Russell, Dist. Eng.  
U. S. Geological Survey  
Salt Lake City, Utah

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. Utah 05685

Unit Diamond Ridge



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL <u>Supplemental</u>	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 18, 1960

Well No. 3 is located 1544 ft. from S line and 1889 ft. from E line of sec. 25

SE/4 Section 25 17S 22E  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Grand County Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~derrick~~ <sup>ground</sup> floor above sea level is 6417 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Supplemental Notice of Intention to Drill - Location change only

SEE PLAT ATTACHED

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Sunray Mid-Continent Oil Company

Address P. O. Box 2692

Denver 1, Colorado

By F. S. Goddard

Title Production Coordinator



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLAND OFFICE Salt Lake City  
LEASE NUMBER  
UNIT Diamond Ridge  
5/5/60

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Grand Field Diamond Ridge Unit  
The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 1960,  
Agent's address P. O. Box 2692 Company Sunray Mid-Continent Oil Company  
Denver 1, Colorado Signed [Signature]  
Phone Ch 4 2961 Agent's title S. Goddard  
Production Coordinator

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	17S	23E	1	-	-	-	-	-	-	SI - No Market
NE NE Sec. 23	17S	22E	2	-	-	-	-	-	-	SI - No Market
NE SE Sec. 25	17S	22E	3	-	-	-	-	-	-	April 30, 1960 TD - 7315' drilling
4/2/60	Drilled to 145'. Set 13 3/8" OD 48# H-40 casing at 141.42'. Cemented with 150 sx regular cement with 3% cc..									
4/14/60	Drilled to 2947' - ran Schlumberger I.E. log, Castlegate sand 2850'-2890' (Electric Log) DST #1 from 2852' to 2947'. 15" LBHSIP, open 1 hour. Weak blow for 1/2 hr and dead last 1/2 hr. 30" FBHSIP, IBHSIP 625#, FBHIP 555#, mud 1530# and 1505#. Recovered 125' of drilling mud. No shows.									
4/15/60	Drilled to 2958', ran 9 5/8" OD 32.30# H-40 and 35# H-55 casing. Set at 2955' with 250 sx regular cement and 2% C.C. in last 100 sx.									

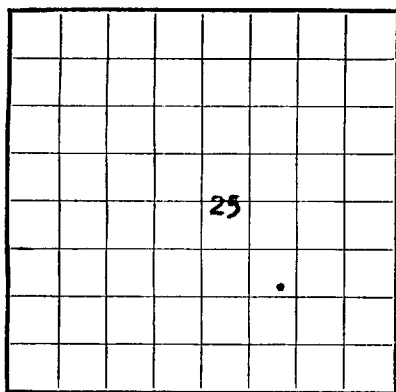
NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



U. S. LAND OFFICE Salt Lake City, Utah

SERIAL NUMBER .....

LEASE OR PERMIT TO PROSPECT 05685

LOCATE WELL CORRECTLY

T  
17  
S

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company Sunray Mid-Continent Oil Company Address P. O. Box 2692, Denver 1, Colorado  
 Lessor or Tract Diamond Ridge Unit Field Diamond Ridge State Utah  
 Well No. 3 Sec. 25 T. 17S. 22E Meridian - County Grand  
 Location 1544 ft. [N.] of 3 Line and 1889 ft. [E.] of E Line of Sec. 25-17S-22E Elevation 6417 Ground  
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

F. S. Goddard

Date .....

Title Production Coordinator

The summary on this page is for the condition of the well at above date.

Commenced drilling 4/1, 19 60 Finished drilling 5/24, 19 60

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to ..... No. 4, from ..... to .....  
 No. 2, from ..... to ..... No. 5, from ..... to .....  
 No. 3, from ..... to ..... No. 6, from ..... to .....

## IMPORTANT WATER SANDS

No. 1, from None to ..... No. 3, from ..... to .....  
 No. 2, from ..... to ..... No. 4, from ..... to .....

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>13 3/8"</u>	<u>48</u>	<u>8</u>	<u>H-40</u>	<u>141.42'</u>	<u>Baker Guide</u>				
<u>9 5/8"</u>	<u>32.30</u>	<u>8</u>	<u>H-40</u>	<u>29.55'</u>	<u>Baker</u>				
<u>5 1/2"</u>	<u>17.15</u>	<u>8</u>	<u>H-40</u>	<u>76.26'</u>	<u>Baker</u>				

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13 3/8"</u>	<u>141.42'</u>	<u>150 sx regular</u>	<u>pump &amp; plug</u>		
<u>9 5/8"</u>	<u>29.55'</u>	<u>250 sx regular</u>	<u>pump &amp; plug</u>		
<u>5 1/2"</u>	<u>76.26'</u>	<u>400 CF of 20% Diacel</u>	<u>pump &amp; plug</u>		

## PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

## SHOOTING RECORD

FOLD MARK

FOLD MARK

casing	Weight set	Number sacks of cement			
13 3/8"	141.42'	150 sx regular	pump & plug		
9 5/8"	2955'	250 sx regular	pump & plug		
5 1/2"	7626'	400 CF of 20% Diacel	pump & plug		

### PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

### SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		<del>See Well History Attached</del>				

### TOOLS USED

Rotary tools were used from ---0--- feet to ---7633'--- feet, and from --- feet to --- feet  
 Cable tools were used from --- feet to --- feet, and from --- feet to --- feet

### DATES

\_\_\_\_\_, 19\_\_\_\_ Put to producing \_\_\_\_\_, 19\_\_\_\_  
 The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, °Bé. \_\_\_\_\_  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

### EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

### FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>Electric Log Tops</u>			
2850'	(± 3559)		Castlegate
6455'	( -46)		Dakota
6662'	( -253)		Cedar Mountain
6862'	( -453)		Brushy Basin
6990'	( -581)		Salt Wash
7298'	( -889)		Entrada
Drillers TO 7633'			
PBTD 6885'			

117021

50—

REPLY HERE

(OVER)

10-43094-4

16-43094-4

1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352</
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## 16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

SEE WELL HISTORY ATTACHED

001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 040 041 042 043 044 045 046 047 048 049 050 051 052 053 054 055 056 057 058 059 060 061 062 063 064 065 066 067 068 069 070 071 072 073 074 075 076 077 078 079 080 081 082 083 084 085 086 087 088 089 090 091 092 093 094 095 096 097 098 099 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 101

ROG OF, OIT OB CAS MELL

GEOLOGIČESKÝ ZOBRAZENÍ

DEPARTMENT OF THE INTERIOR

UNITED STATES

PLEASE OR PERMIT TO PROCEED -- 0000

## ЗЕМІТГ НАЗВЕН

U.S. FELD OFFICE

Ybblz0781 exb362 15-31-90  
111995 - Ybblz0781 15-31-90

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER, WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOG CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES Cased Off, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, MISTRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 3  
SEC 25 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD \_\_\_\_\_  
A.P.E. NO. 70-21-21

Page 1

ALL DEPTHS FROM TOP OF KELLY RUNNING UNLESS OTHERWISE SPECIFIED.

- 3-28-60 MIRT. Dug cellar. Dug mouse hole and rat hole with dry hole digger. Repaired roads. Road muddy.
- 3-29-60 MIRT.
- 3-30-60 RURT. Set <sup>20'</sup>/<sub>20"</sub> Armo corrugated conductor.
- 3-31-60 RURT.
- 4-1-60 RURT. Spudded 8:00 a.m.
- 4-2-60 TD 145'. Drig day #1. Drilled 12 $\frac{1}{4}$ " hole to 145'. Reamed to 17 $\frac{1}{4}$ " hole to 145'. Set 13-3/8" OD, 48#, H-40 casing at 141.42'. Used 2 Baker centralizers and guide shoe. Cemented with 150 sx regular cement with 3% Ca. Cl. Circulated 45 sx. Plug down at 2:30 a.m.
- 4-2-60. WOC. Bit #1 Hughes OSC 1G, Serial #37693 (Rown), Hughes hole opener 17 $\frac{1}{4}$ ". Dev. 1/2° at 145'.
- 4-3-60 TD 262'. Progress 117'. Drilling. WOC 21 hours. Drilled plug. Tested 13-3/8" OD to 600# for 30 minutes with clear water. Held ok. Used 58 sx Magoo gel, 100# lime.
- 4-4-60 TD 873'. Progress 611'. Drilling. Dev. 1/4° at 406'. Changed to Bit #2 Hughes OSC 1G, Serial #37962, in at 406'. 9.7# - 58 sec.. Used 12 sx gel.
- 4-5-60 TD 1294'. Progress 421'. Drilling. Changed to Bit #3, 12 $\frac{1}{4}$ " Smith DT2G, Serial #22446, in at 937'. 9.7# - 45 sec. - 8.6 cc. Used 15 sx gel, 125# Driscose, 100# Quebracho.
- 4-6-60 TD 1604'. Progress 310'. Drilling. Changed to Bit #4 Hughes OSC 1G, Serial #40424, in at 1297'. Changed to Bit #5 Hughes OSC 1G, Serial #40408, in at 1578'. Dev. 1-3/4° at 1290'. 10.1# - 48 sec. - 8.4 cc. Used 24 sx gel, 50# Driscose.
- 4-7-60 TD 1912'. Progress 308'. Drilling. Changed to Bit #6 Hughes OSC 1G, Serial #40407. Dev. 1-3/4° at 1600', 1-3/4° at 1840'. 10.1# - 47 sec. - 8.8 cc. Used 39 sx gel, 25# Driscose, 25# Caustic, 50# Quebracho.
- 4-8-60 TD 2233'. Progress 321'. Drilling. Changed to Bit #7 Hughes 12 $\frac{1}{4}$ " OSC 1G, Serial 37651 in at 2059'. 10.2# - 53 sec. - 9.4 cc. Used 34 sx gel, 100# Caustic, 200# Quebracho, 50# Driscose.

CORRECT

SUBMIT

APPROVED

SUPERINTENDENT

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USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 3  
SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_  
STATE \_\_\_\_\_ FIELD \_\_\_\_\_  
A.P.E. NO. \_\_\_\_\_

Page 2

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 4-9-60 TD 2457'. Progress 224'. Drilling. Running 40,000# on bit, 85 to 95 RPM, 500# pump pressure. Changed to Bit #8 Hughes OSC, Serial #34725 in at 2258'. Changed to Bit #9 Hughes OSC1G, Serial #30038, in at 2387'. Dev. 2-3/4" at 2258', 2-1/4" at 2385'. 10.1# - 52 sec. - 7.4 cc. Used 40 sx Magcogel, 100# Quebracho, 50# Caustic.
- 4-10-60 TD 2746'. Progress 289'. Drilling in sand and shale. Changed to Bit #10 Hughes OSC1G, Serial #37878 in at 2577'. Dev. 1-1/4" at 2576'. Used 5 sx Gel, 75# Caustic, 150# Quebracho.
- 4-11-60 TD 2757'. Progress 11'. Fishing pipe. Pulled Bit #10 into tight hole at 2577'. Pipe parted at 640' from rotary and dropped to bottom. Ran overshot and pulled back into tight hole at 2570'. Spot 40 barrels diesel. Could work pipe down but not up. Conditioned hole and added 40 barrels diesel into system. Stuck pipe at 2555'. Ran dialog free point - stuck at 2555'. Backed off and left one drill collar in hole. Now coming out of hole with 11 drill collars, total of 12 drill collars in string. Changed to Bit #10 Hughes OSC1G, Serial #37878, in at 2577', out at 2757'. 9.8# - 96 sec. - 4.4 cc. Used 25 sx Gel, 50# Caustic, 100# Quebracho, 80 barrels Diesel.
- 4-12-60 TD 2757'. No progress. Pulling fish. Finished pulling out of hole with 11 drill collars. Ran 10-3/4" Klustrite shoe on one joint of 8-5/8" OD wash pipe and washed over fish to bit. Ran jars and screwed into fish. Worked loose down hole. Pulled up into tight spot at 2570'. Rotated and worked up hole 12' in 6 hours. Backed off at safety joint and pulled out, letting fish drop down hole. Ran 12-1/4" bit and reamed hole from 2505' to 2550'. Pulled bit. Ran and screwed into safety joint. Coming out with fish. Changed to Bit #11 Hughes OSC1G, Serial #47153 in at 2757'. 9.7# - 86 sec. - 4.2 cc. Used 50# Driscose.
- 4-13-60 TD 2900'. Progress 143'. Drilling. Top Castlegate at 2860' by samples. Changed to Bit #12 Hughes OSC, Serial #40867 in at 2900'. Dev. 2-3/4" at 2757', 3" at 2898'. 9.7# - 64 sec. - 3.2 cc. Used 10 sx Mica, 50# Driscose, 5 sx Gel, 75# Caustic, 150# Quebracho.
- 4-14-60 TD 2958'. Progress 58'. Preparing to run 9-5/8" OD casing. Drilled to 2947'. Circulated 2 hours. Ran Schlumberger I-E log. Schlumberger TD 2942'. Conditioned hole for DST. Ran Howco DST 2852' to 2947'. 15" IBHSIP. Open 1 hour. Weak blow for 1/2 hour and dead last 1/2 hour. 30" FBHSIP, IBHSIP 625#, FBHIP 555#, Mud 1530# and 1505#. BHFP 50# to 75#. Recovered 125' drilling mud. No show. Drilled to 2958' and conditioned hole to run 9-5/8" OD casing. Pulling bit. Log shows Castlegate Sand at 2850' to 2890'. 9.7# - 95 sec. - 4.0 cc. Used 38 sx Gel.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

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USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit Well No. 3  
SEC. 7 T. 1 R. 1 COUNTY         
STATE        FIELD         
A.F.E. NO.       

Page 3

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 4-15-60 TD 2958'. No progress. Ran 2983' of 9-5/8" OD casing, H-40, 32-30# and J-55, 36# with Baker wash-down whirler shoe and float collar and 4 centralizers. Set at 2955' with 250 sx regular with 2 1/2 Ca. Cl. in last 100 sx. Plug down 3:30 p.m. 4-14. WOC and connecting up.
- 4-16-60 TD 3020'. Progress 62'. Drilling. Drilled plug at 4:00 a.m. 4-16. Dried up hole with air. Started drilling with air at 5:45 a.m. 4-16. Tested 9-5/8" casing and BOP to 1000#. Held ok. Tested injection lines 1000#. Ok. Changed to Bit #13 Reed Rerun in at 2958'.
- 4-17-60 TD 3775'. Progress 755'. Drilling. Running 18,000#, 60 RPM, 100# air. Changed to Bit #14 Reed YC3, Serial #596209, in at 3082'. Dev. 3° at 3170', 3° at 3359', 3° at 3542', 2-3/4° at 3725'.
- 4-18-60 TD 4340'. Progress 565'. Drilling with air. Now running 5000# on bit. Hauled inverted emulsion mud and put in circulating pits. Changed to Bit #14 Reed YC3 out at 4385'. (Made 1303' in 4 1/2 hours.) Dev. 3 1/2° at 3912', 3° at 4005', 3-1/4° at 4097', 3-1/2° at 4189, 4-1/4° at 4312'.
- 4-19-60 TD 4870'. Progress 530'. Drilling. Strapped pipe at 4406' and corrected to 4415'. Changed to Bit #15 Hughes W7, Serial 3553 in at 4385'. Dev. 4° at 4375', 4° at 4477', 4° at 4569', 3-3/4° at 4661', 4° at 4784'.
- 4-20-60 TD 5660'. Progress 790'. Drilling. Dev. 3-3/4° at 4907', 3-3/4° at 5001', 1/2° at 5123', 3-3/4° at 5243', 4-1/4° at 5308', 3-1/2° at 5370', 3-3/4° at 5463', 4° at 5586'.
- 4-21-60 TD 6421'. Progress 761'. Drilling. Trip at 5772'. Running 400' high. Should top Cedar Mountain 6880'. Expected Dakota top 6680'. Changed bit #16 Hughes RG-7, Serial #58369. Dev. 3-1/2° at 5711', 3-1/4° at 5836', 3-1/4° at 5957', 3-1/4° at 6143', 3-1/2° at 6359'.
- 4-22-60 TD 6882'. Progress 461'. Working stuck drill pipe. Top of Cedar Mountain sand at 6876'. Drilled to 6882'. Air injection pressure increased from 100# to 350#. Worked pipe up hole 68' to 6814' and stuck. Injection pressure now 550#. Small amount gas at surface. Will attempt to inject 10 barrels soap solution and 10 barrels diesel oil. Cedar Mountain produced gas (no measurement) before bridging hole. 3-3/4° at 6549', 3-3/4° at 6673', 3-3/4° at 6824'.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

THIS FORM TO BE SUBMITTED ALONG WITH WELL LOG NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOST CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES Cased OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 8  
SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_  
STATE \_\_\_\_\_ FIELD \_\_\_\_\_  
A.P.E. NO. \_\_\_\_\_

Page 4

ALL DEPTHS FROM TOP OF KELLY CASING UNLESS OTHERWISE SPECIFIED.

- 4-28-60 TD 6882'. No progress. Fishing. Ran Dialog free-point indicator and found free-point at 6540' at top of drill collars. Backed off at 6515', leaving 10 drill collars and one joint 4 1/2" drill pipe in hole. Pumped in 1000' mud. Pulled up 1000' and attempted to pump in additional mud. Found drill pipe plugged. Pulled drill pipe. Running in with 8-3/4" bit to load hole with mud. Will wash over fish after conditioning hole.
- 4-24-60 TD 6882'. No progress. Conditioning hole at top of fish. Filled hole with mud through drill pipe at 2940'. Circulated and conditioned at 2940', 3814', 3871', 4427', 4981', 5589', 6282' and 6406'. Slight bridge at 6400'. Washed to top of fish at 6492' (drill pipe measurement) and conditioned hole. Making short trip. Bit #17 Hughes OWC, Serial #2189 in at 6909'. Used 47 sx No-Blok and 65 bbl diesel fuel. 8.4# - 126 sec. - 0 cc wl.
- 4-25-60 TD 6882'. No progress. Laying down fish. Pulled up 20 stands and went back to top of fish at 6491'. Circulated 1 3/4 hours. Pulled rock bit. Picked up wash pipe with Tri-State retrieving tool. Washed over fish from 6491' to 6533'. Tight at 6528-33'. Fish came loose. Worked up hole 380'. Came completely free. Pulled. Laying down washover assembly.
- 4-26-60 TD 6985'. Progress 53'. Drilling. Recovered fish (10 drill collars and 1 joint 4 1/2" drill pipe). Ran 8-3/4" bit and washed 300' to bottom. 20' cavings on bottom. Started drilling ahead at 11:00 p.m. 4-25. Had gas head while conditioning bottom part of hole. Corrected TD from 6882' to 6898'. Top of Cedar Mountain corrected to 6887'. Bit #17 Hughes (Rerun) OWC, Serial #2189 in at 6882'. 8.3# - 131 sec.
- 4-27-60 TD 7001'. Progress 66'. Bit #18 Hughes W7, Serial #3560 in at 6958'. Used 35 sx No-Blok and 2800 gallons diesel. Dev. 4° at 6958'. 8.2# - 134 sec.
- 4-28-60 TD 7058'. Progress 57'. Had to ream 20' with Bit #19 Hughes W7R2, Serial #80202 in at 7015'. Used 47 sx No-Blok and 60 barrels diesel. Dev. 4° at 7015'. 8.2# - 96 sec.
- 4-29-60 TD 7150'. Progress 92'. Drilling. Bit #20 Hughes W7R2, Serial #80203 in at 7059'. Dev 3 1/2° at 7058'. 8.2# - 83 sec.
- 4-30-60 TD 7219'. Progress 69'. Making trip to change Bit #21 Hughes W7 in at 7153'. Dev. 2-8/4° at 7150'.

CORRECT

CHECKED

APPROVED

DATE

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USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit Well No. 8

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_

STATE \_\_\_\_\_ FIELD \_\_\_\_\_

A.P.E. NO. \_\_\_\_\_

Page 5

ALL DEPTHS FROM TOP OF HEAVY BUSHING UNLESS OTHERWISE SPECIFIED.

- 5-1-60 TD 7315'. Progress 96'. Making trip to change bit. Bit #22 Hughes W7, Serial #93013 in at 7219'. Dev.  $2\frac{1}{4}^{\circ}$  at 7219',  $2\frac{1}{4}^{\circ}$  at 7315'. 8.8# - 97 sec.
- 5-2-60 TD 7422'. Progress 107'. Making trip to change bit. Bit #23 Hughes W7R2, Serial #86224 in at 7315'. Bit #24 Hughes W7R2, Serial 27321 in at 7422'. 8.2# - 101 sec.
- 5-3-60 TD 7545'. Progress 123'. Drilling. Bit #25 Hughes W7R2, Serial #98892 in at 7519'. Used 8 sx No-Blok.
- 5-4-60 TD 7603'. Progress 58'. Drilling. Bit dull. Will run logs. Lost 36 barrels mud. Bit #26 Hughes W7R2, Serial #80204 in at 7583'. Dev.  $2^{\circ}$  at 7583'. Used 37 sx No-Blok and 6 sx Mica. 8.8# - 142 sec.
- 5-5-60 TD 7633'. Progress 30'. Circulating. Corrected from 7603' to 7615'. Ran Induction, GR and Sonic logs. Logs reached 7587' (cavings in hole). Top Dakota, Cedar Mountain 6864-6888' 10% porosity 6879-84'. Bit #27 Hughes W7, Serial #78848 in at 7603'. 8.9# - 112 sec.
- 5-6-60 TD 7633'. No progress. Running  $5\frac{1}{2}^{\circ}$  OD casing. Losing mud. No t getting full displacement while running casing.
- 5-7-60 TD 7633'. No progress. Prepare to run logs. Finished running  $5\frac{1}{2}^{\circ}$  OD, 17# and 15.50#, J-55 casing and set at 7626' with 400 cubic feet of 20% Diacel cement. Used 11 centralizers and 20 scratchers between 7830' and 7270', 7070' and 6970' and 6940' and 6800'. Used Baker guide shoe (wash down whirler) and Baker Flexiflo collar. Plug down at 11:25 a.m. 5-6-60. Cut off  $5\frac{1}{2}^{\circ}$  OD and connected up. Preparing to run correlation Neutron and Cemoton logs.
- 5-8-60 TD 7633'. No progress. Pulling DST #2. Ran Lane-Wells Neutron and Cemoton logs from 6000' to 7590'. Top of solid cement behind  $5\frac{1}{2}^{\circ}$  OD casing at 6760'. Tested casing with 1000# clear water for 30 min. Held ok. Perforated Entrada at 7465-70' (Schlumberger), 7460-65' (Lane-Wells) with 4 koneshots per foot. DST with HOWCO packer at 7416', bottom of tail pipe at 7437'. Open 47 minutes with weak blow. Recovered 50' of salt water (2000 PPM chlorides). IHP 3150#, IBHFP 22#, FBHFP 22#, BHSIP (15 min) 48#, FHP 3120#. Set Baker Model "K" CI bridge plug on L-W wire line at 7480'. Perforated Entrada at 7370-80' (Schl.), 7365-75' (L-W) with 4 koneshots per foot. DST #2 with HOWCO packer at 7380'. Open 1 hour with strong blow immediately, decreasing to weak blow at 20 minutes. Recovered 75' of salt water (2000 PPM chlorides). IHP 3130#, IBHFP 22#, FBHFP 48#, BHSIP (15 min) 1080#, FHP 3105#. Set Baker Model "K" CI bridge plug at 7350' on L-W wire line. Displacing water with No-Blok mud.

CORRECT

RECORDED

APPROVED

SUPERINTENDENT



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USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 3

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_

STATE \_\_\_\_\_ FIELD \_\_\_\_\_

A.F.E. NO. \_\_\_\_\_

Page 6

ALL DEPTHS FROM TOP OF HEAVY BENDING UNLESS OTHERWISE SPECIFIED.

- 5-9-60 TD 7633'. No progress. Displaced water with No-Blok mud. Rig broke down while pulling tubing. Repairing draw-works.
- 5-10-60 TD 7633'. PSTD 7350'. Perforate 7312-18' and 7322-28' (Schl.), 7307-18' and 7317-28' (L-W) with 4 jets per foot. DST #3 with Howco packer at 7291', bottom of anchor at 7313'. Took 30 minutes initial SI. Open 4 hours. Swabbed 2 hours, 4 barrels water. Pulled line out of rope socket. Pulled and recovered 95' mud, 4326' salt water (5000 to 42000 PPM) 30' sand. Had strong blow decreasing to weak blow while tool open. No show of gas. IHP 3550#, IHHP 1745#, FHHSIP 2350#, IBHSIP 2350# (30 min.), FHHSIP (1 hour) 2350#, FHP 3525#. Preparing to set bridge plug and test at 7064-76'.
- 5-11-60 TD 7633'. PSTD 7200'. Set Baker CI retainer on L-W wire line at 7200'. Perforated at 7064-76' (Schl.), 7059-71' (L-W) with 4 jets per foot (salt wash). DST #4 with Howco packer at 7034'. Took 30 minutes IBHSIP. Tool open 2 hours 35 minutes. SI 1 hour. Weak blow for 2 minutes and died. By-passed and reopened with weak blow for 2 minutes and died. Ran swab 3 times. No fluid. Pulled. Found tool plugged with sand. DST #5, salt wash perfs at 7064-76' (Schl.). Howco packer at 7034'. Took 30 minutes IBHSIP. Tool open 5 hours. Took 1 hour FHHSIP. Weak blow for 30 minutes, then died. Ran swab 3 times. No fluid. Pulling DST.
- 5-12-60 TD 7633'. Installing tree, prepare to swab test. DST #5 IHSP 3365#, FHSP 3360#, ISIP 22#, PSIP 22#, IFP 22#, FFP 22#. No fluid. Perf 7003-18' L-W; 7008-18' Schl. DST #6, packer at 6970' 30 minutes ISIP. Tool open 2 1/2 hours, weak blow died in 30 minutes. Two runs with swab, no fluid. 1 hour SI, IHSP 3290#, FHSP 3275#, ISIP 40#, PSIP 40#, IFP 20#, FFP 20#. Recovered 30' drilling mud. Set Baker CI bridge plug at 6980', 1 ex cement on plug. Ran tubing to 6960' displace mud with oil, cut slot in casing 6892', Schl. - 6887' L-W with McCullough jet cutter. Ran tubing 6853'. Installing tree, prepare to swab test. Above is salt wash. Dry test. No show.
- 5-13-60 TD 7633'. Swabbed 105 barrels load oil, 30 barrels salt water, 52 PPM. Lack 67 barrels load oil, making small amount gas on swab, now making approximately 90% water, 26 barrels salt water hour with small amount gas on swab. Prepare to load with water; squeeze and test upper zone.
- 5-14-60 TD 7633'. PSTD 6885'. Loaded hole with water. Pulled 2" EUE tubing. McCullough ran junk pusher on wire line to 6886'. Set Baker Model "K" CI retainer with top at 6885' (Schl.). Squeezed frac-notch at 6892' (Schl) with 50 ex regular cement (75 mixed). BD at 2000# to 1400#. Maximum and final pressure 4500#. Reversed 25 ex. Job complete at 9:30 p.m. 5-13. Displaced water with oil. WOC.

CORRECT

CHECKED

APPROVED

SUPERVISOR

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOST CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES Cased Off, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 3

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_

STATE \_\_\_\_\_ FIELD \_\_\_\_\_

A.P.E. NO. \_\_\_\_\_

Page 7

ALL DEPTHS FROM TOP OF RELAY SPACING UNLESS OTHERWISE SPECIFIED.

- 5-15-60 TD 7633'. PBDT 6885'. DST frac-notch at 6867'. Pulled FBRT. McCullough cut frac-notch at 6867' (Schl), 6862' (L-W). DST #7 on notch at 6867', Brushy Basin. Took 1 hour IBHSIP. Opened tool with weak blow for 30 minutes, then died. Test continuing.
- 5-16-60 TD 7633'. PBDT 6885'. DST #7 continued. Tool open 4 hours 5 minutes. Ran swab 3 times with no fluid recovery. Pulled and recovered 30' load oil. IBHSIP 10#, IBHFP 10#, FBHFP 10#, FBHSIP 1860#, IFP 2495#, FHP 2495#. Ran tubing open ended to 6790'. Install Xmas tree. Attempted to frac. BW with oil at 3400#. Pumped in 75 BO at 3000# at 16 BPM. Mixed sand at 3/4# per gallon. When sand reached formation, pressure increased to 4200#. Unable to frac. Reversed out sand. Pulled tubing. Perforated at 6865-75' (Schl), 6860-70' (L-W) with 40 L-W kaneshots. Dowell pumped down casing at 2 BPM at 4000#. No break in pressure. Pressure dropped to 3000# when pump stopped. Will run Baker FBRT for frac thru tubing.
- 5-17-60 TD 7633'. PBDT 6885'. Prepare to wash out sand after frac. Ran 2" EUE tubing with Baker FBRT and set at 6795'. BP perfs at 6865-75' and notch at 6867' (Schl) with oil at 5600#. Pumped in 38 barrels oil at 4 BPM at 5600#. Followed by 1200 gallons gelled crude at 1/4# sand per gallon, 1200 gallons gelled crude at 1/2# sand per gallon at 5800# to 5400#, and 388 gallons gelled crude at 3/4# per gallon. Pressure increased to 7000#. Reversed out sand from tubing. Total of 1191# sand to formation. Raised and set FBRT at 6672'. Swabbed down to 4500' and recovered 30 BO. Very slow feed-in. Pulled FBRT. Running tubing with 4-3/4" RB to wash out sand.
- 5-18-60 TD 7633'. PBDT 6885'. Ran 2" EUE tubing with 4-3/4" RB. Unable to get thru frac-notch at 6867'. Pulled RB. Ran tubing with 2-3/8" x 2-3/8" swage with 2-7/8" OD tubing coupling on bottom (3.5" OD). Unable to go thru frac-notch at 6867'. Pulled. Ran 2" EUE tubing with notched 2" EUE tubing coupling (3.063" OD) on bottom. Would not go below 6867'. Will run 2-3/8" OD muleshoe joint and attempt to wash out below frac-notch. Perforated interval is 6865-75', Schl. meas.
- 5-19-60 TD 7633'. PBDT 6885'. Prepare to test perfs at 6865-75'. Ran 2" EUE tubing with muleshoe joint to 6867' (tubing measurement). Tallied out tubing. Ran L-W line with collar locator with 3-5/8" OD tool. Checked TD at 6880', (L-W), 6885' (Schl). Ran G-R log 6880' to 6754' (L-W). Shows slot at 6860-68', apparently plugged with sand. Ran tubing with Baker FBRT. Set at 6806'. Tubing parted while setting. Unable to screw in. Ran Bowen overshot and pulled. Reset FBRT at 6806'. Preparing to swab.

CORRECT

ENGINEER

APPROVED

SUPERVISOR

USE TYPEWRITER

HISTORY OF WELL

AT TIME OF COMPLETION

LEASE Diamond Ridge Unit Well No. 3

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ COUNTY \_\_\_\_\_

STATE \_\_\_\_\_ FIELD \_\_\_\_\_

A.P.E. NO. \_\_\_\_\_

Page 8

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 5-20-60 TD 7633'. PBD 6885'. Swabbed 19 barrels load oil in 5½ hours. SD 1 hour. Fed in 100'. Slight show gas when swab pulled. Pulled Baker FBRT. Ran L-W torpedo jets. Would not go below 6830'. Ran tubing and circulated at 6862' (tubing measurement). Ran L-W collar locator with 3-5/8" sub on bottom to 6880' (L-W measurement). Perf 6880-84' (Schl.), 6875-79' (L-W) with 3 torpedo jets per foot. Running tubing with Baker FBRT to swab test.
- 5-21-60 TD 7633'. PBD 6885'. Swabbing to recover load oil. Set Baker FBRT at 6805'. Swabbed 46 BLO in 10 hours. Feeding in 600' per hour (approximately 2 barrels). Loaded tubing and pumped into formation at 1/4 BPM at 3400#, 3/4 BPM at 4000#, 1-1/2 BPM at 5000#, 2-1/2 BPM at 6000#, 3 BPM at 6500#. Broke back to 6300# at 3.2 BPM. Pumped in total of 40 barrels oil. Resumed swabbing. Broke swab line. Pulled and recovered swab. Reset packer at 6805'.
- 5-22-60 TD 7633'. PBD 6885'. Swabbed 47 barrels load oil in 18 hours. Gas blow for 2 to 3 minutes after each swab pull. Swabbing from tight spot at 6200'. Feeding in 300' to 400' per hour.
- 5-23-60 TD 7633'. PBD 6885'. Swabbing load oil from 6800'. Fluid level at 6350'. Recovering approximately 2 BO per hour. No water. Gas increasing slightly. Heads after swab pulled and light blow between pulls. Lack 223 barrels load oil from perfs 6865-75' and 6880-84'.
- 5-24-60 TD 7633'. PBD 6885'. Swabbed 2 barrels load oil in 1½ hours. Gas blow for 10 minutes after pulling swab, decreasing to very weak blow. Pulled swab line out of rope socket. Pulled tubing and recovered swab. Reran tubing and washed out to bottom. Reset Baker FBRT at 6808' and attempted to BD formation with oil. Pumped at 6500# at 4 BPM. Pumped in 45 barrels oil. No break in pressure. Pulled tubing with FBRT. Ran 2" EUE tubing with muleshoe joint to 6830'. Seating nipple at 6800'. Installed Xmas tree. Total of 288 barrels load oil in well. Rig tearing down. Well T.A. Final report.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

THIS FORM TO BE SUBMITTED ALONG WITH REPORT NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER WITH DATE, LOCATION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOST CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES, Cased off, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE Diamond Ridge Unit WELL NO. 3  
SEC. 25 T. 17S R. 22E COUNTY Grand  
STATE Utah FIELD Diamond Ridge

A.P.E. NO. \_\_\_\_\_

Page 9

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 8-10-62 Move in R & R well service. Pulled 21 1/2 joints 2 3/8" EUE tubing & 1 - 2 3/8" mule shoe joint. Rig up. Wayte Industrial Supply Corporation to pull casing.
- 8-11-62 Load casing with mud. Ran Baker junk catcher to 6900' and set Baker Model 'K' C.I. Bridge Plug at 6,800' with McCullough Tool Company. Free point 5 1/2" casing and cut off at 6,200' wire line measure.
- 8-12-13 Pulling 5 1/2" casing. Recovered 6,246.99' thds. included, consisting of 32 joints and landing joint of 15.5# J - LT&C, 153 joints of 15.5# J - ST&C and 2 joints and cut off of 17# J - ST&C.
- 14-15-62
- 8-16-62 Work 9 5/8" casing & cut off at 1089'. Shot at 2116, 2085, 1909, 1709, 1507, 1305, 1200, and 1089'. Pulled 33 joints casing.
- 8-17-62 Set 50 sacks cement plug from 1060' to 1167' and 80 sacks cement plug from 87' to 187' in 13 3/8" & open hole.
- 8-18-62 Finish pulling 9 5/8" casing. Place 10 sacks cement plug 0-15' in 13 3/8" casing. Install dry hole marker in same. P & A complete 8-18-62.

CORRECT \_\_\_\_\_

ENGINEER

APPROVED \_\_\_\_\_

SUPERINTENDENT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLAND OFFICE Utah  
LEASE NUMBER \_\_\_\_\_  
UNIT Diamond Ridge

December 3, 1960

LESSEE'S MONTHLY REPORT OF OPERATIONSState Utah County Grand Field Diamond Ridge UnitThe following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1960,Agent's address 424 Patterson Building Company Sunray Mid-Continent Oil Co.  
Denver 2, Colorado Signed F. S. GoddardPhone AComa 2-1859 Agent's title District Production Coord.

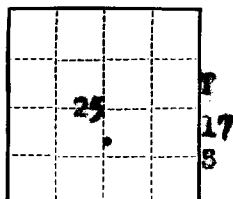
SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Ft. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 8	17S	23E	1	-	-	-	-	-	-	SI- No Market
NE NE Sec. 23	17S	22E	2	-	-	-	-	-	-	SI- No Market
NE SE Sec. 25	17S	22E	3	-	-	-	-	-	-	Temporarily Abandoned-5/24/60
NW SE Sec. 36	16S	22E	4	-	-	-	-	-	-	SI- for build up
SE NW Sec. 21	17S	22E	5	-	-	-	-	-	-	Temporarily Abandoned-9/4/60

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City,  
Utah  
Lease No. 05685  
Unit Diamond Ridge



R-22E

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	<input checked="" type="checkbox"/>	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<input checked="" type="checkbox"/>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 25, 19 62

Well No. 3 is located 1544 ft. from S line and 1889 ft. from E line of sec. 25  
SE 1/4, Sec. 25 173 22E S1EM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Diamond Ridge Grand County Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6429 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

Presently T.A. T.D. 7626' - 13 3/8" OD csg. at 141' with 150 sacks. 9 5/8" OD csg. at 2950' with 250 sacks (approx. top cement 2293') 5 1/2" OD csg. at 7626' with 450 cu. ft. cement. Top cement 6760'. Perfs - 6865-75, 6880-84, 7008-18', 7064-76, 7312-28', 7465-70'. Castiron bridge plugs @ 7430', 6980' & 6885 - Non Commercial well - Formation tops: Castlegate 2850' - Mancos 2900' - Dakota 6455' - Cedar Mtn. 6663' - Brushy Basin 6862' - Salt Wash 6990' - Entrada 7298'

Propose to P & A by placing castiron bridge plug in 5 1/2" csg. @ 6,800' and pulling 5 1/2" from approx. 6550'. Pull 9 5/8" OD csg. from approx 2,000' with 50 sacks plug across stub. Place 80 sacks cement plug from 180' to 80', 10 sacks cement plug in top 13 3/8" OD csg. Dry hole marker to be installed in cement.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SUNWAY OIL COMPANY

Address 101 University Blvd.

Cherry Creek Center

Denver 6, Colorado

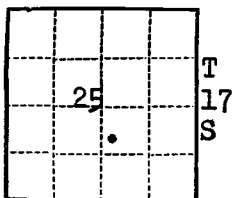
By F. S. Goddard  
Title District Production Coordinator

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.  
Approval expires 12-31-60.

Land Office Salt Lake City,  
Utah  
Lease No. 05685  
Unit Diamond Ridge



R22E

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 4, 1962, 1962

Well No. 3 is located 1544 ft. from {N} line and 1889 ft. from {E} line of sec. 25  
{S}  
SE $\frac{1}{4}$ , Section 25      17S      22E      SLBM  
( $\frac{1}{4}$  Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)  
Diamond Ridge      Grand County      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 6429 ft.

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

7233  
T.D. 1060'. Commenced pulling casing & plugging operations 8-10-62. Pulled 2 3/8" tubing. Loaded hole with mud. Set Baker cast-iron bridge plug at 6800'. Ran McCullough free pt. indicator and cut off 5 1/2" casing at 6200' wire line measure. Pulled same. Worked 9 5/8" casing and shot off at 1089'. Set 50 sacks cement plug across cut off from 1060' to 1167'. Pulled 9 5/8" casing. Set 80 sacks cement plug from 87' to 187' in 13 3/8" casing and open hole. A 10 sack cement plug from 0' to 15' in 13 3/8" casing with dry hole marker installed in same. Completed 8-18-62.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SUNRAY DX OIL COMPANY

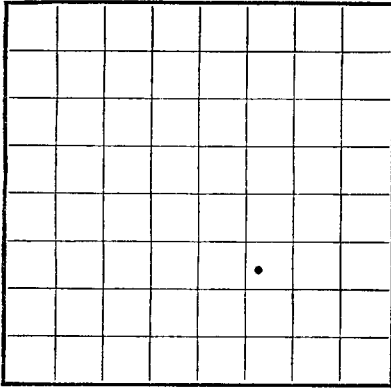
Address 101 University Blvd.

Cherry Creek Center

Denver 6, Colorado

By F. S. Goddard  
F. S. Goddard  
Title District Production Coordinator

Salt Lake City  
U. S. LAND OFFICE  
SERIAL NUMBER  
LEASE OR PERMIT TO PROSPECT 05685



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

Company Sunray DX Oil Company Address 101 University Blvd.  
Lessor or Tract Diamond Ridge Unit Field Diamond Ridge State Utah  
Well No. 3 Sec. 25 T. 17S R. 22E Meridian SLBM County Grand  
Location 1544 ft. N. of S Line and 1889 ft. E. of E Line of Section 25 Elevation 6429 KDB  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date September 5, 1962 Signed F. S. Goddard Title District Production Coordinator

The summary on this page is for the condition of the well at above date.

Commenced drilling April 1, 19 60 Finished drilling May 24, 19 60

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from None to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13 3/8	48	8	Baker	1000'	Guide	None			
9 5/8	2955	8	Baker	1000'	Well	1000'			
5 1/2	15 & 17	8	Baker	7626	Well	8200'	6867'	6815'	Prod. Test
							7008'	7018'	Prod. Test
							7064'	7076'	Prod. Test
							7312'	7318'	Prod. Test
							7322'	7328'	Prod. Test
							7370'	7380'	Prod. Test
							7465'	7470'	Prod. Test

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	141	150	Pump & Plug	8.8	
9 5/8	2955	250	Pump & Plug	9.5	
5 1/2	7626	400 cu. ft.	Pump & Plug	8.5	

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD



FOLD	PLUGS AND ADAPTERS		
	Heaving plug—Material .....	Length .....	Depth set .....
Adapters—Material .....	Size .....		

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			SEE WELL HISTORY			

## DATES

Rock pressure, lbs. per sq. in. -----

		, Driller			, Driller
		, Driller			, Driller

FROM--	TO--	TOTAL FEET	FORMATION
			<u>LOG TOPS</u>
			Castlegate 2850' (-3559)
			Dakota 6455' (- 46)
			Cedar Mt. 6662' (- 253)
			Brush Basin 6862' (- 453)
			Salt Wash 6990' (- 581)
			Entrada 7298' (- 889)
FROM--	TO--	TOTAL FEET	FORMATION